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Networking the world's business data™

Simplifying Storage Network Management

McDATA 4416 Switch Module

Firmware Version 5.2.3.13.00
GUI Version 5.02.3.07

Release Notes

P/N 50561-00 Rev A

3/21/06

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These release notes describe information for McDATA 4416 switch module.

NOTE: To improve readability, the remainder of this document refers to firmware versions by the first two digits. In other words, firmware version 5.2.3.13.00 is referenced as version 5.2.

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Applicable Products

McDATA firmware version 5.2 is supported on the following products:

- McDATA 4416

Outstanding Known Issues

Table 1, page 2 lists the problem reports (PRs) for issues that are known, but not fixed in switch firmware 5.2. Workarounds are provided. Outstanding known issues are organized by their Problem Category, then their PR number. Each is assigned a Problem Category such as Simple Network Management Protocol (SNMP), the Telnet command line interface (CLI), McDATA Embedded Web Server, and Element Manager.

Table 1 Outstanding Known Issues

PR Number	Description	Problem Category	Affected Model
8767	**Description/Symptom:** The shortcut key [Alt+S,a] will open the hard reset window instead of the expected archive window (same shortcut key used in different situations) **Customer Impact:** low **Workaround/Recovery:** Use the pull down menu instead of the shortcut key.	Embedded and Element Manager	4416
9557	**Description/Symptom:** In some instances, the Wizards menu is displayed before the View menu. **Customer Impact:** none **Workaround/Recovery:** none	Embedded	4416
10467	**Description/Symptom:** In cases where the fabric has a login failure to the switch(es), the GUI continues to attempt subsequent logins every second. This fills the alarm logs and other (more important) alarm logs may be lost as a result. In addition, the repeated attempts to login and subsequent failures disrupt the usability of Telnet sessions until the fabric is closed. This is only an issue if there are multiple GUIs pointed at the fabric. **Customer Impact:** medium **Workaround/Recovery:** Point only one GUI at the fabric.	Embedded	4416

Table 1 Outstanding Known Issues (*continued*)

PR Number	Description	Problem Category	Affected Model
10559	**Description/Symptom:** After selecting the **Add a new Fabric** dialog to start the GUI session and then executing a different software program at the same time, the *Add a new Fabric* dialog reappears and allows you to add another GUI session when only one is supposed to be allowed. **Customer Impact:** low **Workaround/Recovery:** Remove one of the GUI sessions so that you are only running with one GUI session.	Embedded	4416
10727	**Description/Symptom:** When Accounting RADIUS servers are defined on the switch and Authentication order = Local Only, new (Telnet) sessions validate the accounting servers prior to log in, as designed. However, when a new GUI session is initiated, the Accounting RADIUS Servers are not validated. **Customer Impact:** medium **Workaround/Recovery:** Restart the GUI.	Security	4416
10730	**Description/Symptom:** After logging into the McDATA Embedded Web Server and displaying the fabric, if you then select the Web Browser to either reload or change the IP address, the McDATA Embedded Web Server and the Web Browser become unresponsive. This is a Windows only issue. **Customer Impact:** medium **Workaround/Recovery:** Restart the Web Browser.	Embedded	4416
10825	**Description/Symptom:** An error message is being reported when SSH is enabled via the GUI. Error message is: *Received error in attempting to release admin privileges. [Reason: No Response]* **Customer Impact:** low **Workaround/Recovery:** Use the CLI to enable SSH.	Security	4416
10987	**Description/Symptom:** When using help menus on RedHat® 4.0 in either Mozilla® or Firefox® browsers, the left hand panel that shows items to be selected only uses the top 1/3 of the panel. **Customer Impact:** low **Workaround/Recovery:** Use the Konqueror® browser.	Embedded and Element Manager	4416
15176	**Description/Symptom:** Visual SAN Device Manager will not support the McDATA 4416 Switch Module at product launch. **Custom Impact:** low **Workaround/Recovery:** Check the following web site for Visual SAN Device Manager updates: http://support.qlogic.com/support/oem_detail_all.asp?oemid=370	Visual SAN	4416

Table 1 Outstanding Known Issues (*continued*)

PR Number	Description	Problem Category	Affected Model
15402	**Description/Symptom:** Cursor remains as hourglass after firmware activation failure when using Element Manager. **Customer Impact:** low **Workaround/Recovery:** Disregard the hourglass cursor. The cursor is still operable. This is a display issue only.	Element Manager	4416
16033	**Description/Symptom:** The switch module is not showing the correct value for Fabric Binding after changing Fabric Binding on a different McDATA switch in the fabric. **Customer Impact:** low **Workaround/Recovery:** Refresh the screen.	Embedded and Element Manager	4416
16183	**Description/Symptom:** Domain ID Lock is not activated when McDATA fabric binding is enabled from another McDATA switch in the fabric. Fabric binding requires that the specified domain ID and switch WWN match what is entered into the security list. **Customer Impact:** low **Workaround/Recovery:** Set Domain ID lock on McDATA 4416 switch. Domain ID lock can be set using the McDATA Embedded Web Server and selecting **Switch**>**Switch Properties** and then clicking Enable for Domain ID lock and applying changes.	Security	4416
16664	**Description/Symptom:** An erroneous I/O error message is displayed while unpacking the firmware image in Maintenance mode, yet the firmware download and unpack were successful. **Customer Impact:** low **Workaround/Recover:** Disregard the erroneous message.	Firmware	4416
16701	**Description/Symptom:** Online loopback test fails when run against the embedded HBA with the default (256) frame size. The port can be left in non-functional state. **Customer Impact:** low **Workaround/Recovery:** Specify a smaller frame size (255). Non-functional ports can be recovered by resetting the switch port.	Diagnostics	4416
16743	**Description/Symptom:** The Event Browser is not displaying new events. **Customer Impact:** Moderate **Workaround/Recovery:** Close and reopen the McDATA Embedded Web Server or McDATA Element Manager. Reopen the Event Browser.	Embedded and Element Manager	4416

Table 1 Outstanding Known Issues (*continued*)

PR Number	Description	Problem Category	Affected Model
None	**Description/Symptom:** Faceplate display under *target/initiator* column shows Embedded QLogic HBA as *unknown* instead of *initiator*. **Customer Impact:** low **Workaround/Recovery:** This is a display issue that can occur if the attached Server Blade is running Linux. This will be corrected by a future Linux HBA device driver.	HBA	4416

Documentation Updates

Zoning

The McDATA 4416 switch supports port/domain zoning in Standard/Open Fabric Interop Mode; other McDATA directors and edge switches do not. Therefore, only WWN zoning is supported in Standard/Open Fabric Interop Mode when McDATA 4416 switch is attached to other McDATA switches. FC address zoning is not supported by other McDATA switches, and is not recommended for use in McDATA 4416 switch.

Do not create a soft zone that shares membership with a hard zone. Soft zone members that are in the hard zone will not be able to transfer I/O with soft zone members that are outside of the hard zone.

Extended credits

The credits associated with internal FC switch ports (ports 0-9) can be donated to external ports (10-15) to allow the attachment of longer cables. The Set Config command configures internal ports as donor ports (PortType - Donor) and allows the external ports to request extended credits (ExtCredit) in 15 credit increments.

PFE Keys

The *McDATA 4416 Switch Module Installation Guide* (page 1-4) and the *McDATA Switch Module Management Guide* (page 4-1) incorrectly directs you to the McDATA web site for information about purchasing Product Features Enabled (PFE) keys. For information about purchasing PFE keys, contact your local Dell sales representative.

Standards Compliance

Firmware 5.2 is compliant with the following Fibre Channel protocols:

- FC-PH Rev 4.3
- FC-PH-2
- FC-PH-3
- FC-FG
- FC-SW-2
- FC-GS
- FC-GS-2
- FC-GS-3
- FC-AL Rev 4.6
- FC-AL-2 Rev 7
- FC-FLA
- FC-Tape
- FC-VI

Firmware 5.2 is compliant with the Fibre Channel Element MIB Specification (FE-MIB) and the Fibre Alliance MIB Specification (FA-MIB).

Firmware 5.2 is compliant with the following classes of service:

- Class 2
- Class 3
- Class F

The McDATA 4416 Embedded Web Server requires Microsoft Internet Explorer® 5.0 or higher, Netscape Navigator® 4.72 or higher or Mozilla 1.02 or higher. Java® Plugin 1.4.2 or higher must be available on the server where the browser is started.

Related Documentation

The following documents provide additional support and information pertaining to firmware version 5.2:

- *McDATA 4416 Product Information Guide* (59179-00 Rev A)
- *McDATA 4416 Quick Start Guide* (50562-00 Rev A)
- *McDATA 4416 Fibre Channel Switch Module Installation Guide* (59180-00 Rev A)
- *McDATA 4416 Command Line Interface Guide* (59182-00 Rev A)
- *McDATA Switch Module Management Guide* (59181-00 Rev A)
- *McDATA EFC Manager Software User Manual* (620-000170-030)

Optional Features

The following optional features are available with Product Feature Enablement (PFE) keys. Refer to the McDATA Switch Module Management Guide for information about installing a PFE key. To purchase McDATA PFE keys, please contact your McDATA representative.

SANtegrity

If SANtegrity® is licensed and enabled on the existing McDATA fabric, the McDATA 4416 switch must also have a SANtegrity PFE key. Refer to your technical documentation for the product for the procedure that shows you how to validate features on your device.

Port Activation

The switch module comes from the factory as a 12-port switch, enabling external ports 10–13 and internal ports 0–7. You can upgrade the switch module to enable the remaining external ports (14, 15) and internal ports (8, 9) through the purchase of the Port Activation PFE key.

McDATA Element Manager

To manage the switch module through EFCM using the McDATA Element Manager, you must install the McDATA Element Manager PFE key. McDATA Element Manager is a subset of the McDATA Embedded Web Server and enables you to manage a single switch through EFCM.

Other Notes and Considerations

- When using McDATA Embedded Web Server or Element Manager, the faceplate Device tab for a non-McDATA 4416 switch will show *Unknown* for three columns. It is normal for the Switch, Port and Target/Initiator columns on non-McDATA 4416 switches to show *Unknown*.

CAUTION

Configuration Wizard should be applied to an isolated switch - links to other switches should be disconnected before continuing. If the switch is part of a fabric, the Wizard's operation will be disruptive to that fabric and may result in the deactivation of the fabric's active zone set.

- The online help states:

  The Default Zone setting is set automatically on all switches in the fabric if the Interop Mode setting on the Advanced Switch Properties window is set to McDATA Fabric Mode. If set to Standard, you must ensure that all switches in the fabric have the same Default Zone setting.

  The correct statement is:

  If the switch is in McDATA fabric mode and you change the Default Zone setting, the new setting is propagated to all switches in the fabric. If the switch is in Standard mode and you change the Default Zone setting, the new setting is NOT propagated to any other switches in the fabric.

- To use the McDATA SANtegrity Enhanced feature, you must install the McDATA SANtegrity Enhanced PFE key and enable the Secure Socket Layer (SSL) feature in McDATA Embedded Web Server. When the PFE key is installed and SSL is enabled, the Security menu becomes available in Element Manager.
- If you enable SSL using the GUI on the entry switch, secure communication between the management station and the switch will not be used until you add a new fabric using the IP address of the switch where you enabled SSL. You will know that secure communication is being used by the addition of the padlock to the fabric name in the fabric tree.

- When logged in to the McDATA 4416 switch via the Dell DRAC/MC, the console output is erratic. It appears that CR (carriage returns) are not being interpreted correctly. This is a problem on Linux systems only. Consider the following remedies:
  - — Connect directly to the FC switch through Telnet instead of logging in through the Dell DRAC/MC
  - — Connect a NULL modem cable between the Linux system and the Dell DRAC/MC and set the baud rate to 115200.
  - — Contact Dell technical support to see if new Dell DRAC/MC code is available.
- SNMP Proxy is enabled by default on the McDATA 4416 Switch. This can cause the following display issues when using Element Manager:
  - — The Zoning dialog does not display all switch modules.
  - — Nodes attached to switch modules do not display in the product list or in the zoning dialog.
  - — The active firmware is not displayed correctly in the product list.
  - — No fabric is displayed in the topology display when multiple switch modules are in a fabric but only 1 switch is discovered

  To avoid these display issues, you must disable SNMP Proxy. To disable the SNMP Proxy, open a Telnet session on the switch, log in, and enter the following commands:

  ```
  admin start
  set setup snmp
  (set the ProxyEnabled setting to False)
  Do you want to save and activate this snmp setup? (y/n):
  [n] y
  ```

- When upgrading the firmware on the McDATA 4416 switch using McDATA Embedded Web Server or Element Manager, the firmware upgrade process may fail with the following message:

  ```
  The upload process failed
  ```

  This failure may be due to an File Transfer Protocol (FTP) proxy or Network Address Translation (NAT) router that exists on the Ethernet backbone which does not support, or is blocking, passive FTP mode.

This firmware upload failure can be easily resolved by uploading firmware from a computer system that is on the same subnet as the McDATA 4416. If possible, modify the settings on the proxy/router to allow passive FTP mode connections. Otherwise, upgrade firmware from the command line interface. See the *McDATA 4416 Command Line Interface Guide*.

- Table 2 describes the zoning limits:

Table 2 Zoning Limits

	Current Limit
Maximum zone sets	1
Maximum zones	2047
Maximum zones in a zone set	2047
Maximum members	10,000
Maximum members in a zone	4096
Maximum aliases	0